

**U. S. PLANT PATENT APPLICATION OF**

**HELMUT UNGER**

**FOR: PENTAS PLANT NAMED**

**‘LAVA CERISE’**

*UNGER, Helmut*

TITLE: PENTAS PLANT NAMED 'LAVA CERISE'

APPLICANT: HELMUT UNGER

BOTANICAL CLASSIFICATION/CULTIVAR DESIGNATION:

*Pentas lanceolata* cultivar Lava Cerise

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#### BACKGROUND OF THE INVENTION

The present Invention relates to a new and distinct cultivar of Pentas plant, botanically known as *Pentas lanceolata*, and hereinafter referred to by the name 'Lava Cerise'.

10        The new Pentas is a product of a planned breeding program conducted by the Inventor in Rheinfelden, Germany. The objective of the breeding program was to develop new moderately tall Pentas cultivars with numerous flowers and attractive flower and foliage coloration.

15        The new Pentas originated from a cross-pollination made by the Inventor during the summer of 1999 of two unidentified proprietary selections of *Pentas lanceolata*, not patented. The cultivar Lava

Cerise was discovered and selected by the Inventor as a flowering plant within the progeny of the stated cross-pollination in a controlled environment in Rheinfelden, Germany.

Asexual reproduction of the new cultivar by terminal cuttings taken in Rheinfelden, Germany, has shown that the unique features of this new Pentas are stable and reproduced true to type in successive generations of asexual reproduction.

#### SUMMARY OF THE INVENTION

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'Lava Cerise'. These characteristics in combination distinguish 'Lava Cerise' as a new and distinct Pentas cultivar:

1. Upright and somewhat outwardly spreading plant habit.
2. Freely branching habit.
- 15 3. Dark green-colored leaves.
4. Freely flowering habit.

5. Red purple-colored flowers arranged in large terminal corymbs that are positioned above the foliage.

Plants of the new Pentas differ primarily from plants of the parent selections in the following characteristics:

- 5 1. Plants of the new Pentas are more compact than plants of the parent selections.
2. Plants of the new Pentas have larger flowers and larger inflorescences than plants of the parent selections.
3. Flowers of plants of the new Pentas are not fragrant whereas flowers of plants of the parent selections are fragrant.

The new Pentas can be compared to the *Pentas lanceolata* cultivar New Look Rose, not patented. However, in side-by-side comparisons conducted in Rheinfelden, Germany, plants of the new  
15 Pentas differed from plants of the cultivar New Look Rose in the following characteristics:

1. Plants of the new Pentas were taller and more vigorous than plants of the cultivar New Look Rose.
2. Plants of the new Pentas were more uniform than plants of the cultivar New Look Rose.
- 5 3. Flowers of plants of the new Pentas were lighter in color than flowers of plants of the cultivar New Look Rose.

The new Pentas can also be compared to the *Pentas lanceolata* cultivar New Look Pink, not patented. However, in side-by-side comparisons conducted in Rheinfelden, Germany, plants of the new  
10 Pentas differed from plants of the cultivar New Look Pink in the following characteristics:

1. Plants of the new Pentas were more vigorous than plants of the cultivar New Look Pink.
2. Plants of the new Pentas had larger inflorescences than plants of the cultivar New Look Pink.
- 15 3. Plants of the new Pentas were more uniform than plants of the cultivar New Look Pink.

### BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the overall appearance of the new cultivar, showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type.

5 Colors in the photographs may differ slightly from the color values cited in the detailed botanical description which accurately describe the colors of the new Pentas. The photograph at the top of the sheet comprises a side perspective view of a flowering plant of 'Lava Cerise' grown in a container. The photograph at the bottom of the

10 sheet is close-up view of typical flowers, inflorescences and leaves of 'Lava Cerise'.

### DETAILED BOTANICAL DESCRIPTION

Plants of the cultivar Lava Cerise have not been observed under all possible environmental conditions. The phenotype may vary

15 somewhat with variations in environment such as temperature and light intensity, without, however, any variance in genotype. The aforementioned photographs and following observations and

measurements describe plants grown in Lompoc, California, under commercial practice in a polycarbonate-covered greenhouse during the summer. During the production of the plants, day temperatures ranged from 21 to 27°C, night temperatures ranged from 16 to 18°C  
5 and light levels ranged from 5,000 to 9,000 foot-candles. Rooted young plants were pinched once and then planted in 15-cm containers. Plants had been growing for about 16 weeks when the photographs and the description were taken. In the following description, color references are made to the Royal Horticultural Society Colour Chart,  
10 1995 Edition, except where general terms of ordinary dictionary significance are used.

BOTANICAL CLASSIFICATION:

*Pentas lanceolata* cultivar Lava Cerise.

15 PARENTAGE:

Female, or seed, parent: Unidentified proprietary selection of  
*Pentas lanceolata*, not patented.

Male, or pollen, parent: Unidentified proprietary selection of  
*Pentas lanceolata*, not patented.

PROPAGATION:

Type cutting: Terminal cuttings.

5 Time to initiate roots: About 10 to 14 days at 22°C.

Time to produce a rooted young plant: About 28 days at 20°C.

Root description: Fine; white in color.

Rooting habit: Freely branching.

PLANT DESCRIPTION:

10 General appearance: Upright and somewhat outwardly spreading plant habit; inverted triangle.

Growth and branching habit: Moderately vigorous and freely-branching growth habit with about seven lateral branches per plant. Pinching, that is removal of the terminal apex, enhances branching potential.

15 Plant height: About 30 cm.

Plant diameter or spread: About 28 cm.

Lateral branches:

Length: About 22 cm.

Diameter: About 5 mm.

Internode length: About 5 to 6 cm.

5 Texture: Pubescent.

Color: 137A.

Foliage description:

Arrangement: Opposite, simple.

Length: About 9 cm.

10 Width: About 3.5 cm.

Shape: Narrowly elliptical.

Apex: Acute.

Base: Acute to attenuate.

Margin: Entire.

15 Texture, upper and lower surfaces: Pubescent; coarse;  
rugose.

Venation pattern: Pinnate.

Color:

Developing foliage, upper surface: 137A.

Developing foliage, lower surface: 137C.

Fully expanded foliage, upper surface: 147A.

5 Fully expanded foliage, lower surface: 147B.

Venation, upper surface: 145A.

Venation, lower surface: 145C.

Petiole:

Length: About 3 mm.

10 Diameter: About 2 mm.

Texture, upper and lower surfaces: Pubescent.

Color: 145B.

FLOWER DESCRIPTION:

Flower type and habit: Numerous salverform single flowers that  
15 are arranged on large terminal corymbs; about 52 flowers develop  
per corymb. Flowers face upright and outward. Inflorescences  
positioned above the foliage on erect peduncles. Flowers last

about 10 to 14 days under greenhouse conditions. Flowers not persistent. Flowers not fragrant.

Natural flowering season: In the garden, flowering is continuous through the spring and summer. In the greenhouse, flowering is 5 continuous year-round.

Inflorescence height: About 4.5 cm.

Inflorescence diameter: About 9 cm.

Flower height: About 2.5 cm.

Flower diameter: About 2 cm.

10 Flower tube length: About 2 cm.

Flower throat diameter: About 4 mm.

Flower tube diameter: About 1 mm.

Flower buds (at stage of showing color):

Length: About 1.2 cm.

15 Diameter: About 2 mm.

Shape: Elongated ovoid.

Color: 182A.

Petals:

Quantity per flower/arrangement: Five to six in a single whorl; fused at base.

Lobe length: About 7 mm.

5 Lobe diameter: About 4 mm.

Lobe shape: Elliptic.

Lobe apex: Acute.

Lobe base: Fused.

Lobe margin: Entire.

10 Texture, upper and lower surfaces: Smooth, glabrous; velvety.

Color:

When opening and fully opened, upper surface:

57A.

15 When opening and fully opened, lower surface:  
63C.

Throat: 56A.

Tube: 63C.

Sepals:

Quantity per flower/arrangement: Five to six in a single whorl; fused at base.

5 Length: About 1.5 mm.

Width: About 1.5 mm.

Shape: Elliptic.

Apex: Acute.

Base: Fused.

10 Margin: Entire.

Texture, upper and lower surfaces: Smooth, glabrous.

Color, upper surface: 147A.

Color, lower surface: 147B.

Peduncles:

15 Length: About 8 to 14 mm.

Diameter: About 1 mm.

Angle: Upright to about 45° from vertical.

Strength: Strong.

Texture: Pubescent.

Color: 137B.

Pedicels:

5 Length: About 1 to 3 mm.

Diameter: Less than 1 mm.

Angle: Upright to about 45° from vertical.

Strength: Strong.

Texture: Pubescent.

10 Color: 137B.

Reproductive organs:

Stamens:

Quantity per flower: Six.

Anther size: About 1 mm by 3 mm.

15 Anther shape: Ovoid.

Anther color: 145C.

Pollen amount: Scarce.

Pollen color: 145C to 145D.

Pistils:

Quantity per flower: One.

Pistil length: About 2.8 mm.

5                   Stigma shape: Two-parted.

Stigma color: 186A.

Style length: About 2 mm.

Style color: 145D.

Ovary color: 145C.

10                  Seed/fruit: Seed and fruit production have not been observed.

DISEASE/PEST RESISTANCE:

Plants of the new Pentas have not been observed to be resistant to pathogens and pests common to Pentas.